WE CLAIM:

1. An XDSL system comprising:

an impedance matching circuit in operative communication with a transmission line and an XDSL modem associated with a subscriber premises,

the impedance matching circuit including a compromise impedance providing a substantial impedance match to a plurality of common impedance characteristics of copper transmission lines.

- 2. The XDSL system of claim 1, wherein the compromise impedance circuit comprises a resistance of approximately 620 ohms in parallel with a series combination of a resistor of approximately 680 ohms and a capacitor of about 2200 picofarads.
- 3. The XDSL system of claim 1, wherein the compromise impedance has an impedance value that is approximately equal to a characteristic line impedance of the transmission line without a bridge tap.
- 4. The XDSL system of claim 1, wherein the compromise impedance has an impedance value that is approximately equal to a characteristic line impedance of the transmission line with a bridge tap.